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Derwent Title: **Self-illuminating LCD display comprises LCD and LED structures in which a polarizer layer or support forms the support for a transparent electrode layer of the LED structure**

Original Title: ☒ [DE19916747A1](#): Selbstleuchtende LCD-Anzeigevorrichtung

Assignee: **MANNESMANN VDO AG** Standard company
Other publications from [MANNESMANN VDO AG \(MANS\)...](#)

Inventor: **REISINGER A; RUPP C;**

Accession/
Update: **2000-673575 / 200324**

IPC Code: **G02F 1/1335 ; G09G 3/36 ; G02F 1/1339 ; G02F 1/1343 ; G09F 9/35 ;**

Derwent
Classes: **[L03](#); [P81](#); [P85](#); [U12](#); [U14](#); [W05](#); [X26](#);**

Manual Codes: **L03-G05A**(Liquid crystal display devices) , **U12-A01A1X**(LED with other type of semiconductor) , **U12-A01A6**(Arrays of encapsulated LEDs) , **U14-K01A1C**(LCD optical components) , **U14-K01A4A**(Modular details of LCD) , **U14-K01A4C**(LCD illumination arrangements) , **W05-E05B**(Back-lighting) , **X26-H**(LEDs; circuits)

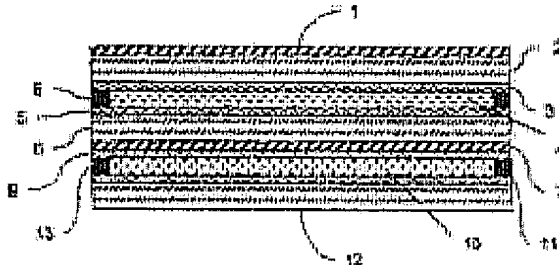
Derwent
Abstract: ([DE19916747A](#)) **Novelty** - A self-illuminating LCD display comprises LCD and LED structures in which a polarizer layer (1) or support (2) forms the support for a transparent electrode layer of the LED structure. One of the polarizer layers or, when the polarizer layer is arranged between a support and an electrode layer its support, forms the support for the third transparent electrode layer (9).

Detailed Description - Self-illuminating LCD display contains an LCD assembly, with a first polarizer layer (1), a first transparent support (2), a first transparent electrode layer (3), a liquid crystal layer (4), a second transparent electrode layer (5), a second transparent support (6) and a second polarizer layer (7), and an LED assembly which illuminates the LCD assembly and which comprises a third transparent electrode layer (9), a layer (10) containing organic light-emitting material, a fourth electrode layer (11) and a support (12), further layers optionally being provided between the third and fourth electrode layers.

Use - As a self-illuminating LCD display.

Advantage - The design simplifies production and assembly of the self-illuminating LCD display by eliminating one of the supports, provides a viewing angle range determined by the LCD layer and eliminates problems associated with the flatness and fitting precision of the lighting unit surface.

Images:



Description of Drawing(s) - The drawing shows a cross-sectional view of a self-illuminating LCD display.

first polarizer layer 1, first glass plate 2, first transparent electrode layer 3, liquid crystal layer 4, second transparent electrode layer 5, second glass plate 6, second polarizer layer 7, third transparent electrode layer 9, light-emitting polymer layer 10, fourth electrode layer 11, support 12 [Dwg.1/2](#)

Family:	PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
	<input checked="" type="checkbox"/> DE19916747A1 *	2000-10-19	200066	6	German	G02F 1/1335
	Local appls.: DE1999001016747 Filed:1999-04-13 (99DE-1016747)					
	<input checked="" type="checkbox"/> US6542145 =	2003-04-01	200324	6	English	G09G 3/36
	Local appls.: US2000000545033 Filed:2000-04-06 (2000US-0545033)					
	<input checked="" type="checkbox"/> EP1046944A2 =	2000-10-25	200066	7	German	G02F 1/1335
	Des. States: (R) AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
	Local appls.: EP2000000105166 Filed:2000-03-11 (2000EP-0105166)					

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Legal Status:

First Claim: [Show all claims](#)
1. Selbstleuchtende LCD-Anzeigevorrichtung enthaltend eine LCD-Baugruppe mit einer ersten Polarisatorschicht (1), einem ersten transparenten Träger (2), einer ersten transparenten Elektrodschicht (3), einer Flüssigkristallschicht (4), einer zweiten transparenten Elektrodschicht (5), einem zweiten transparenten Träger (6) und einer zweiten Polarisatorschicht (7) und eine LED-Baugruppe zur Beleuchtung der LCD-Baugruppe mit einer dritten transparenten Elektrodschicht (9), einer Schicht (10) enthaltend organische lichtemittierende Stoffe, einer vierten Elektrodschicht (11) und einem Träger (12) sowie gegebenenfalls weiteren zwischen den dritten und vierten Elektrodschicht enthaltenden Schichten, **dadurch gekennzeichnet**, daß eine der Polarisatorschichten oder, wenn die Polarisatorschicht zwischen Träger und Elektrodschicht angeordnet ist, der sie tragende Träger der Träger für die dritte transparente Elektrodschicht ist.

Priority Number:	Application Number	Filed	Original Title
	DE1999001016747	1999-04-13	

Title Terms: SELF ILLUMINATE LCD DISPLAY COMPRISE LCD LED STRUCTURE POLARISE LAYER SUPPORT FORM SUPPORT TRANSPARENT ELECTRODE LAYER LED STRUCTURE

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